Dr. TIAN Jing

Senior Lecturer & Consultant, Artificial Intelligence Practice

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Profile

Tian Jing currently lectures in the Analytics and Intelligent Systems Practice in the areas of artificial intelligence, data analytics, and machine learning. He received his Ph.D. degree from School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore.

Prior to joining NUS-ISS, he spent a number of years in research, development and consultant work, with a focus in areas of computer vision and artificial intelligence, at two A*STAR spin-off companies, Institute for Infocomm Research (I²R, A*STAR), Temasek Laboratories @ NTU, Singapore, respectively. He also served as a technical leader in numerous research projects with both local major government agency and SME, as well as international collaborators, in areas of smart nation, safety and security, healthcare.

Educational Qualifications/Professional Certifications

- Ph.D., School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
- M.Eng., School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China
- B.Eng., School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China

Academic and Professional Experience

- Technical Director, Vixel Inc Pte Ltd, Singapore

- Research Scientist, ZWEEC Analytics Pte Ltd, Singapore
- Scientist, Institute for Infocomm Research (I²R), A*STAR, Singapore
- Research Associate/Scientist, Temasek Laboratories @ NTU, Singapore
- Software Engineer, ZTE Corporation, Shenzhen, China

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Membership and Professional Activities

- Member, IEEE,
- Associate Editor, Computers & Electrical Engineering
- Guest Editor, Multimedia Tools and Applications; Biomedical Signal Processing and Control

Research Interests

- Artificial intelligence
- Computer vision
- Machine learning
- Multimedia technology

Selected Publications

- J. Tian, A. Satpathy, E. S. Ng, S. G. Ong, W. Cheng, J.-M. Burgunder, and W. Hunziker, "Motion analytics of zebrafish using fine motor kinematics and multi-view trajectory," Multimedia Systems, Vol. 22, No. 6, Nov. 2016, pp. 713-723.
- W. Cheng, J. Tian, J.-M. Burgunder, W. Hunziker, H.-L. Eng, "Myotonia congenita-associated mutations in chloride channel-1 affect zebrafish body wave swimming kinematics," PLOSONE, Vol. 9, No. 8, Aug. 2014, Article Number: e103445.
- J. Tian and K.-K. Ma, "A survey on super-resolution imaging," Signal, Image and Video and Processing, Vol. 5, No. 3, Sept. 2011, pp. 329-342.

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ARTIFICIAL INTELLIGENCE

Cognitive Systems

ARTIFICIAL INTELLIGENCE

Intelligent Sensing and Sense Making

ARTIFICIAL INTELLIGENCE

Vision Systems

ARTIFICIAL INTELLIGENCE

Spatial Reasoning from Sensor Data

DATA SCIENCE

Predictive Analytics - Insights of Trends and Irregularities

SOFTWARE SYSTEMS

Architecting IOT Solutions

ARTIFICIAL INTELLIGENCE

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